

In the Specification

Please replace the title of the application with the following amended title.

Method and Apparatus for Making Carbon Nanotube Structures Using
Having A Catalyst Island Islands

Please replace the paragraph at page 1, lines 4-7, with the following amended paragraph.

This is a continuation-in-part of U.S. Patent Application Serial No. 09/133,948 (STFD.021PA/S98-049) filed on August 14, 1998 and entitled "Carbon Nanotube Structures made Using Catalyst Islands," to which priority is claimed under 35 U.S.C. §120 for common subject matter and which is fully incorporated herein by reference.

Please replace the paragraph at page 8, line 21 – page 9, line 5, with the following amended paragraph.

In another example embodiment of the present invention, a furnace chamber is configured and arranged for manufacturing carbon nanotubes. The furnace is adapted to flow a carbon feedstock gas, such as methane, and to react the carbon feedstock gas using a catalyst for growing carbon nanotubes. In one implementation, the furnace chamber is adapted to heat a substrate and catalyst to between about 850 and 1000 degrees Celsius, and to flow methane gas at a velocity of about 2-20 centimeters per second to a catalyst in the furnace. The methane may, for example, be reacted at catalyst islands on a substrate to form a carbon nanotube. In example implementations, the catalyst island is contacted with a carbon containing gas that has been reacted using a catalyst, and the carbon containing gas is reacted with a catalyst prior to contacting the catalyst island with the carbon-containing gas and forming a carbon nanotube.